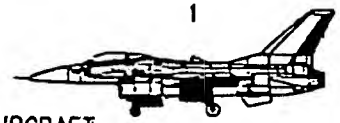
2/12
1-12

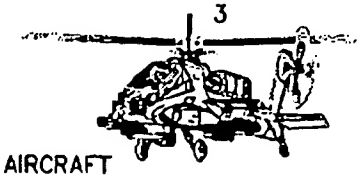
PLATFORMS



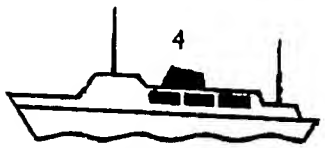
FIXED WING AIRCRAFT

IMAGES AND DATA

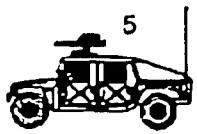
CONFIGURATION AND CONTROL



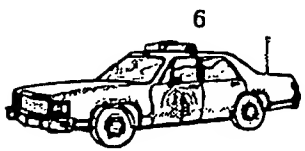
ROTOR WING AIRCRAFT



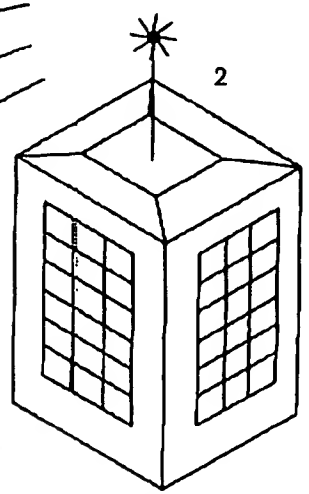
MARINE VEHICLE



MILITARY GROUND VEHICLE



CIVILIAN GROUND VEHICLE



COMMAND AND CONTROL
BASE STATION

FIG. 1

PLATFORM BASE STATION LINKS
DATA TRANSMISSION

09113232.092999

3/12

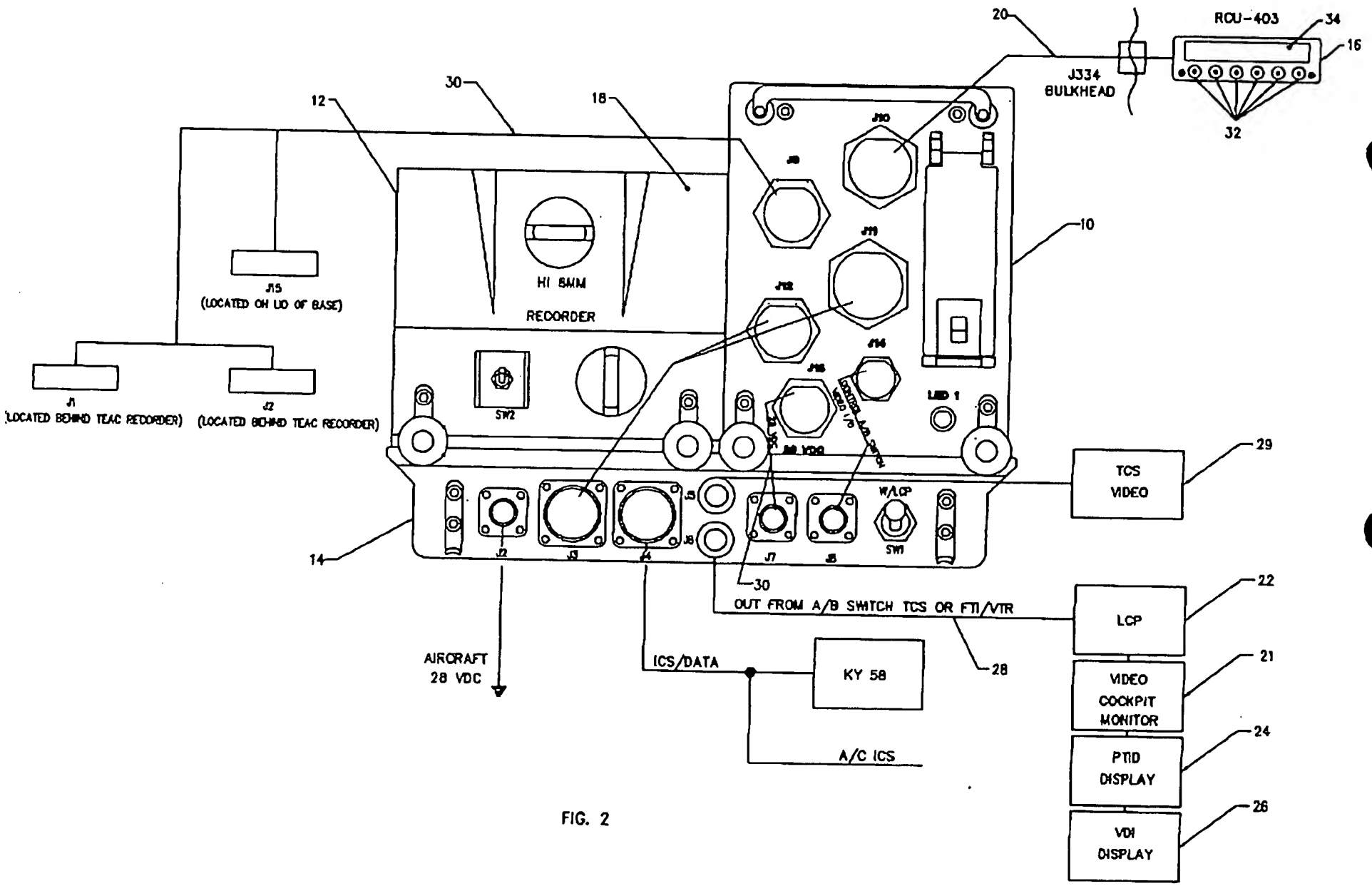

20
RCU-403
34
16
J334
BULKHEAD
32
30
12
18
10
J15
(LOCATED ON LID OF BASE)
HI 8MM
RECORDER
J1
(LOCATED BEHIND TEAC RECORDER)
J2
(LOCATED BEHIND TEAC RECORDER)
SW2
LED 1
TCS
VIDEO
29
W/LCP
SW1
14
30
OUT FROM A/B SWITCH TCS OR FTI/VTR
22
LCP
28
AIRCRAFT
28 VDC
ICS/DATA
KY 58
21
VIDEO
COCKPIT
MONITOR
A/C ICS
24
PTID
DISPLAY
26
VDI
DISPLAY

FIG. 2

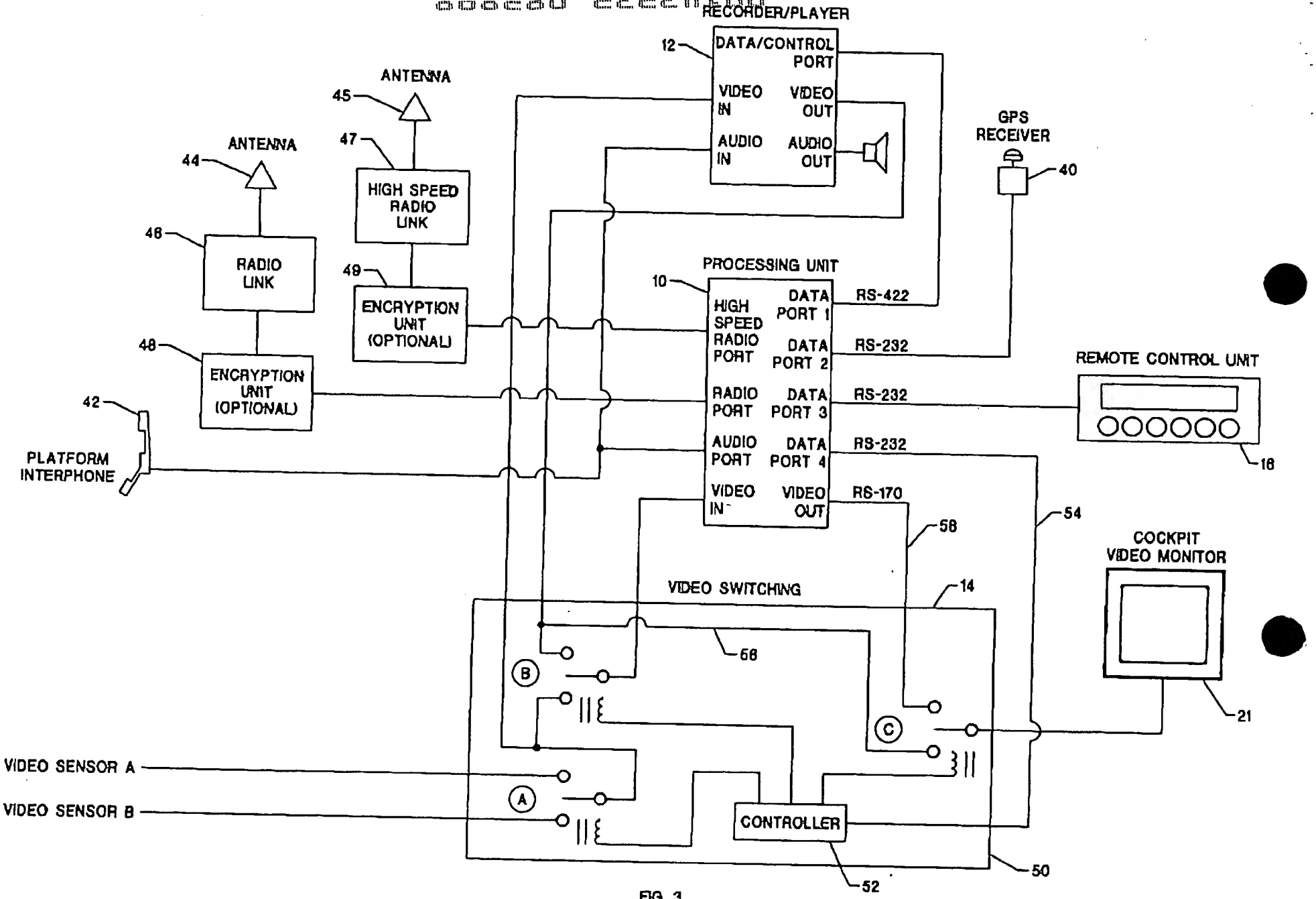


FIG. 3
RECORDER/TRANSMISSION SYSTEM WITH FULL MOTION CAPABILITY
WITH RCU CONTROL

86280 "2ec+ed

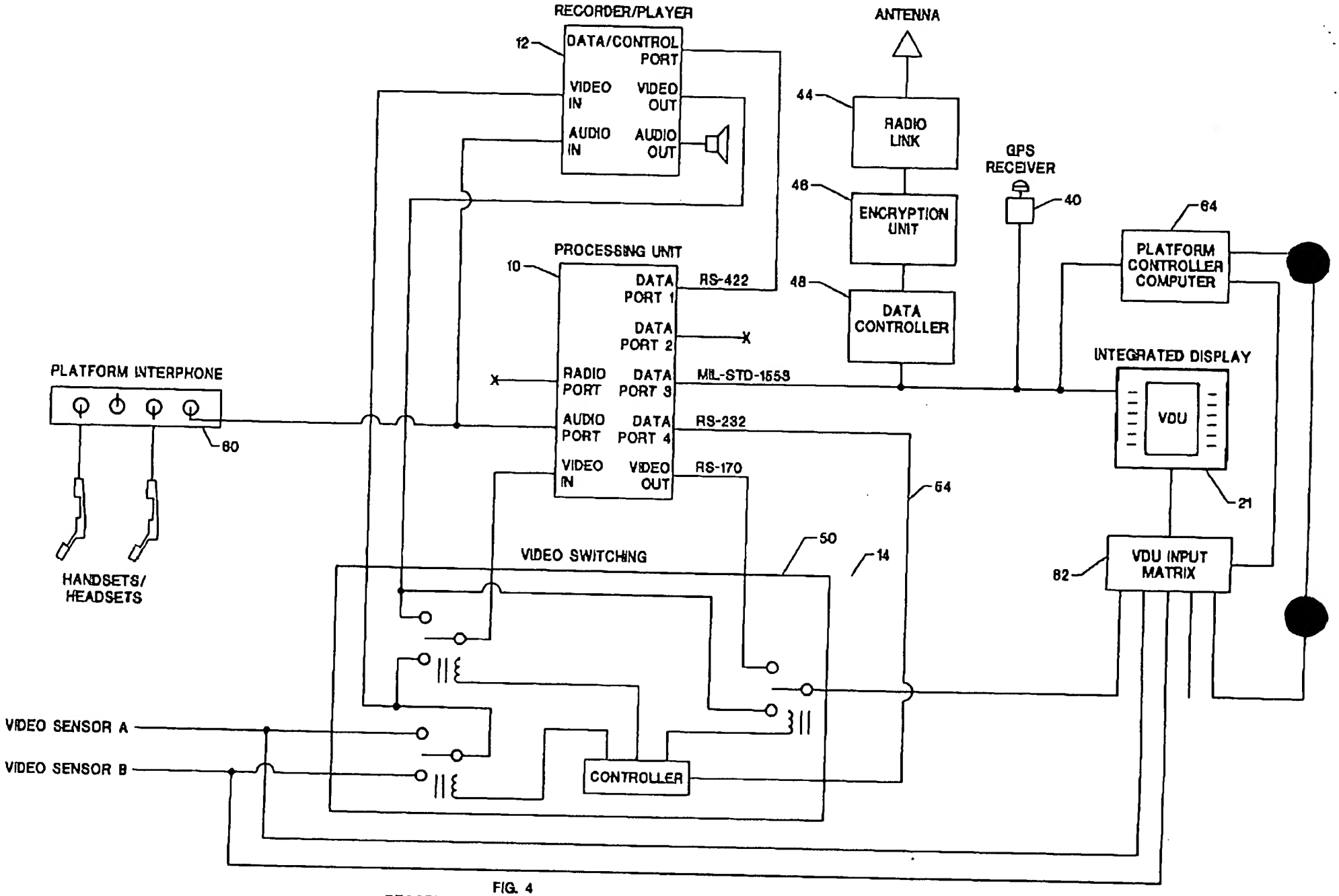


FIG. 4
RECORDER/TRANSMISSION SYSTEM
WITH MIL-STD 1553 CONTROL

6,832,080 * 2004-12-14

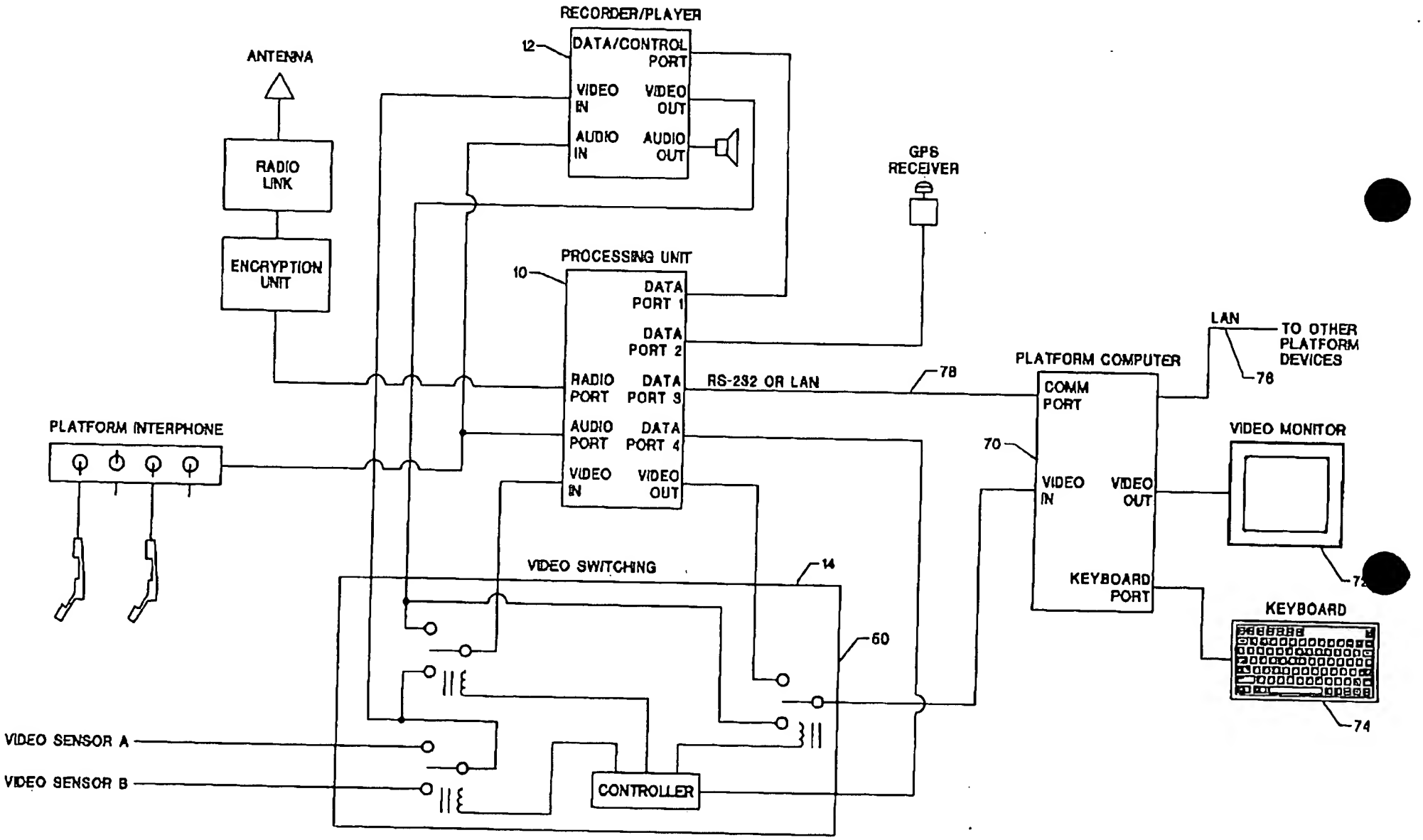


FIG. 5
RECORDER/TRANSMISSION SYSTEM
WITH COMPUTER CONTROL

86826D "2626T60

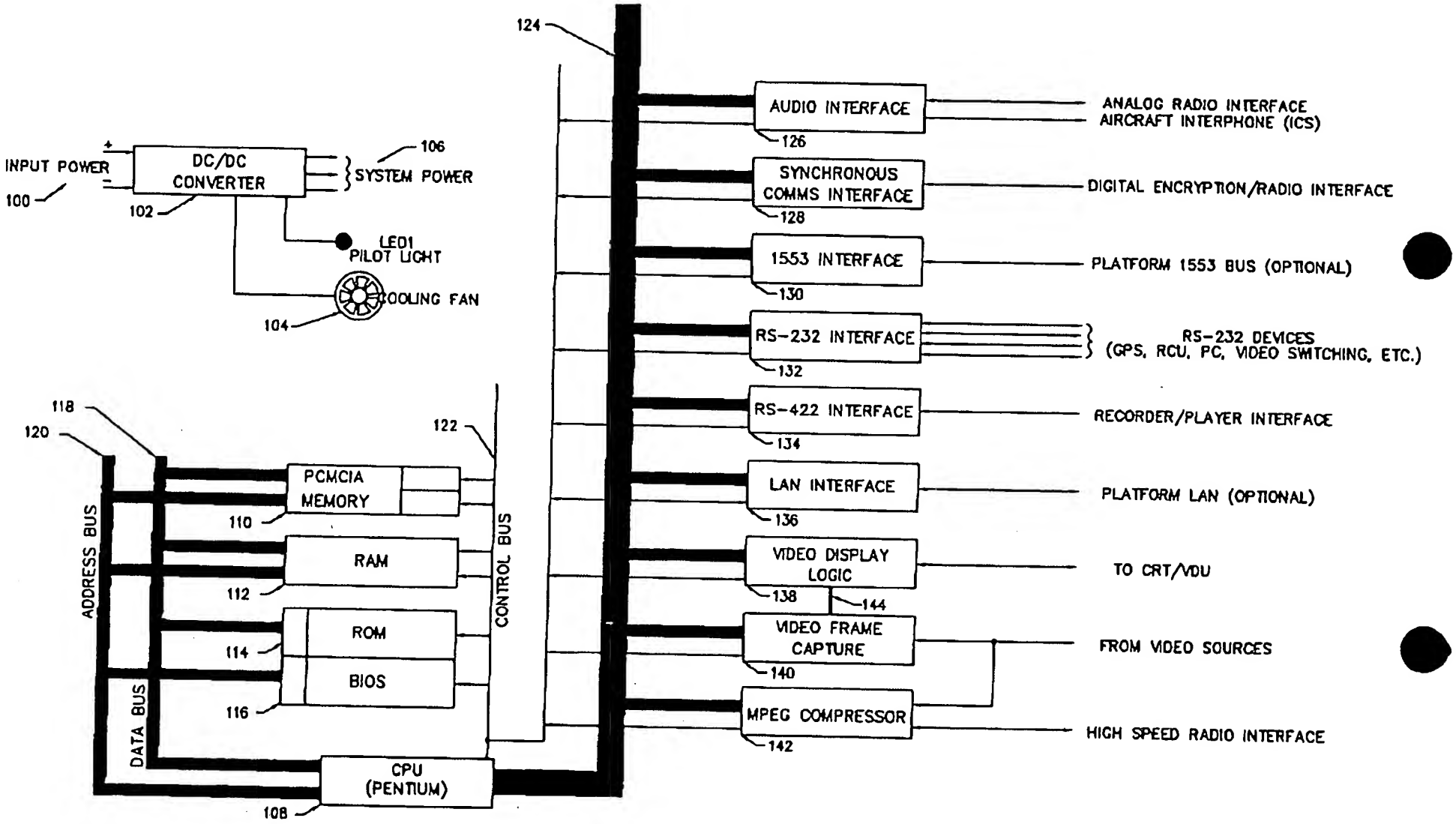


FIG. 6

PROCESSING UNIT

WITH FULL MOTION CAPABILITY

BLOCK DIAGRAM

86820 "2ECTION

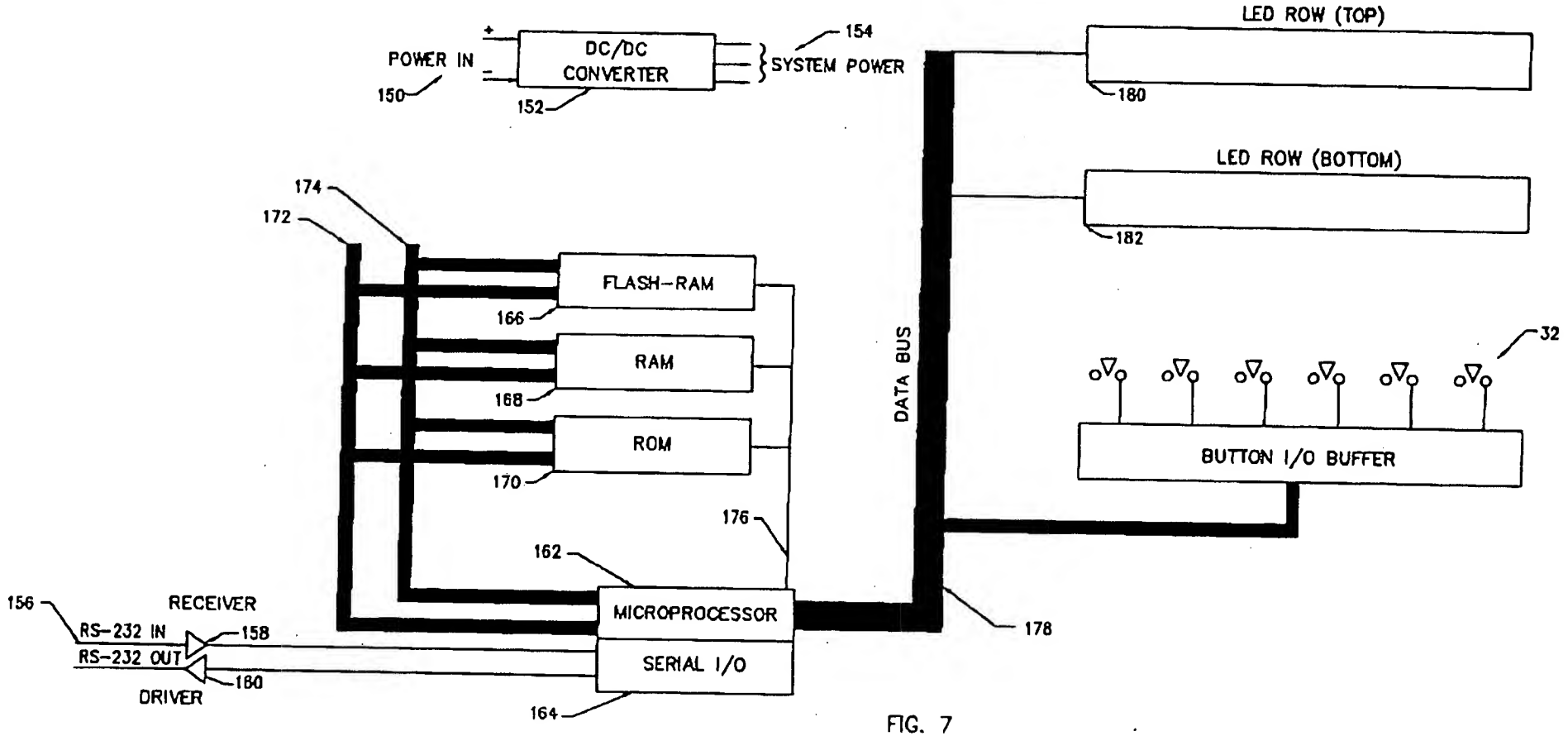


FIG. 7

REMOTE CONTROL UNIT
(RCU)

86280 "222hT60

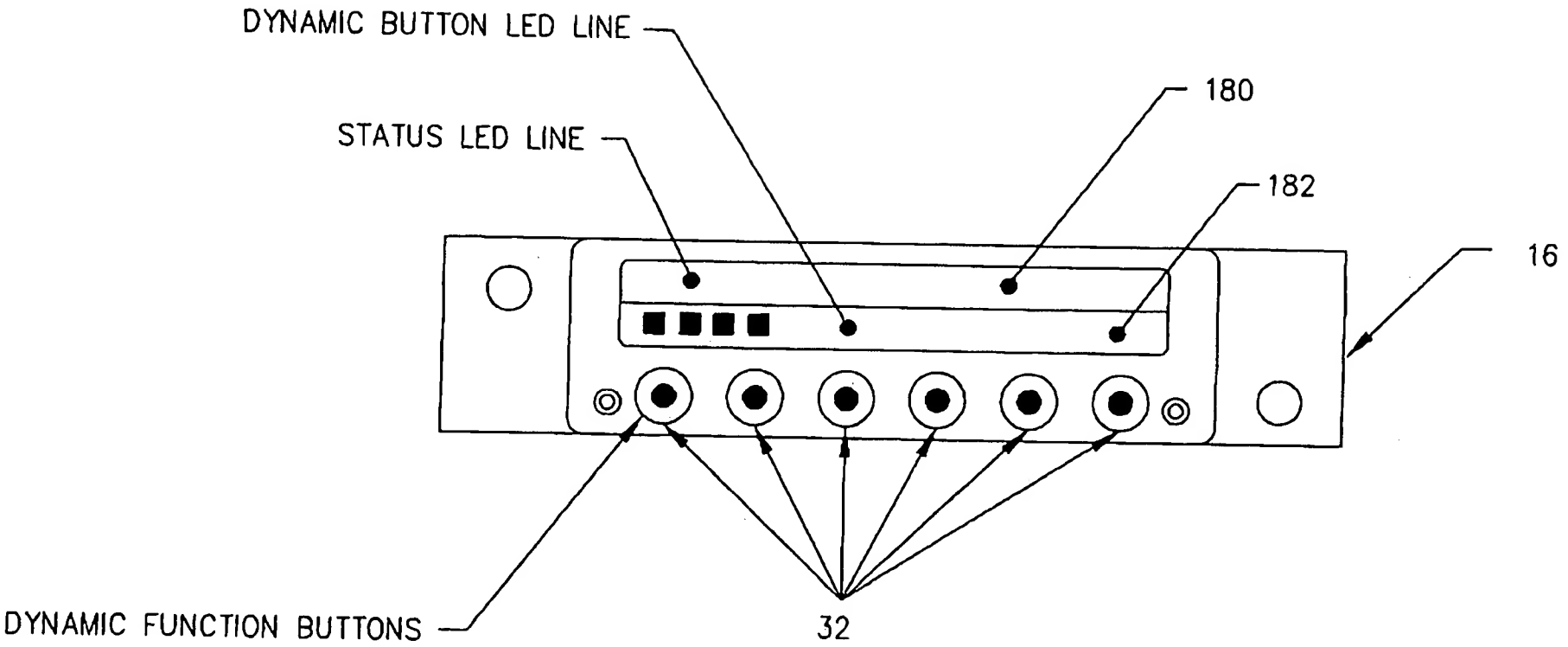


FIG. 8

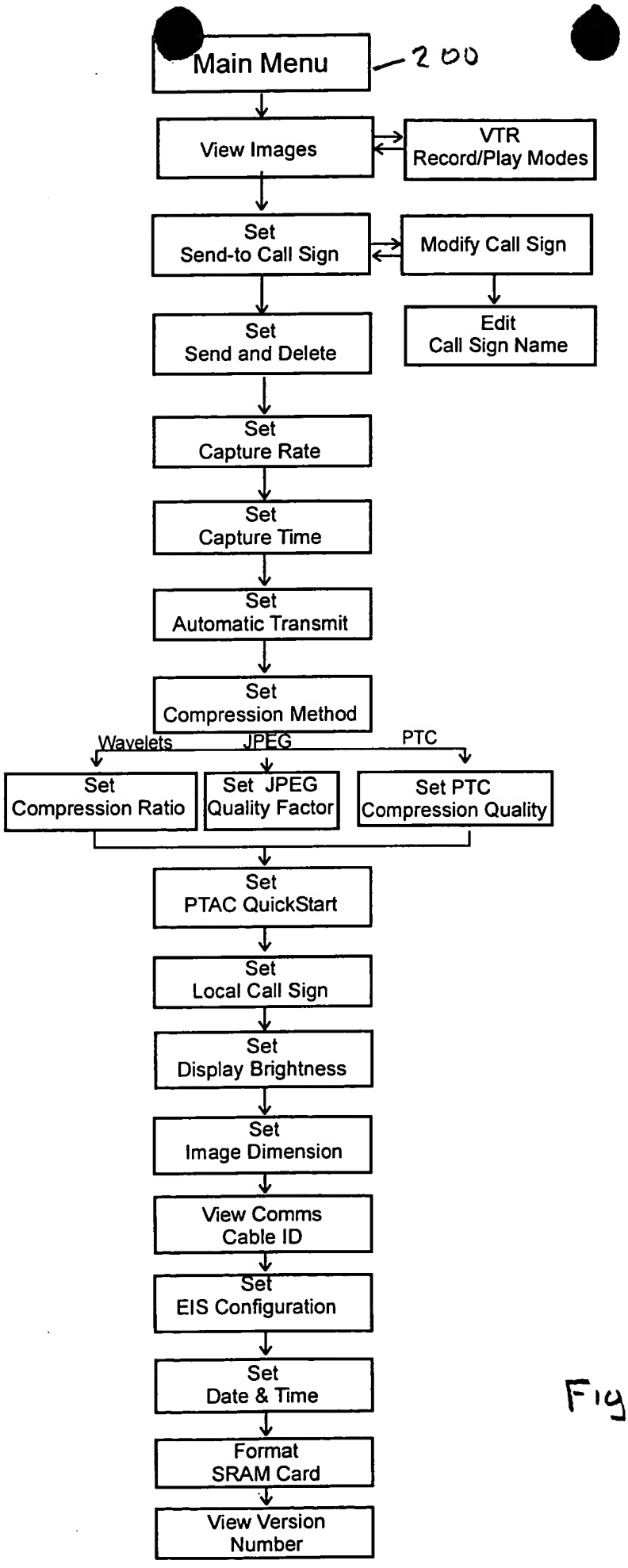

Main Menu
200
View Images
VTR
Record/Play Modes
Set
Send-to Call Sign
Modify Call Sign
Edit
Call Sign Name
Set
Send and Delete
Set
Capture Rate
Set
Capture Time
Set
Automatic Transmit
Set
Compression Method
Wavelets
JPEG
PTC
Set
Compression Ratio
Set JPEG
Quality Factor
Set PTC
Compression Quality
Set
PTAC QuickStart
Set
Local Call Sign
Set
Display Brightness
Set
Image Dimension
View Comms
Cable ID
Set
EIS Configuration
Set
Date & Time
Format
SRAM Card
View Version
Number

Fig. 9

Enclosure 2

Top Level Menu reflecting the recorder state – 202

(Record) – 204

S	=	X	X	X		H	=	X	X	X		R	=	X	X	X			R	:	X	X	X
B	r	s	t	S	n	a	p		S	e	t	**V**	**i**	**e**	**w**	D	a	t	a				

180

(Play) — 206

182

S	=	X	X	X		H	=	X	X	X		R	=	X	X	X			P	:	X	X	X
B	r	s	t	S	n	a	p		S	e	t	**V**	**i**	**e**	**w**	D	a	t	a				

(Standby) — 208

S	=	X	X	X		H	=	X	X	X		R	=	X	X	X			S	:	X	X	X
B	r	s	t	S	n	a	p		S	e	t	**V**	**i**	**e**	**w**	D	a	t	a				

(Unthread) — 210

S	=	X	X	X		H	=	X	X	X		R	=	X	X	X			U	:	X	X	X
B	r	s	t	S	n	a	p		S	e	t	**V**	**i**	**e**	**w**	D	a	t	a				

Next Menu Level After Pressing View

S	=	X	X	X		H	=	X	X	X		R	=	X	X	X			R	:	X	X	X
E	n	d		D	u	m	p	S	e	n	d	H	o	l	d	R	c	v			**V**	**T**	**R**

Next Menu Level After Pressing VTR

Display if Stby Is Selected

S	T	A	N	D	B	Y										X	X	:	X	X	:	X	X
E	n	d		S	e	t		**S**	**t**	**b**	**y**	R	e	c		U	n	t	h	R	s	e	t

Display If Rec Is Selected

R	E	C	O	R	D											X	X	:	X	X	:	X	X
E	n	d		S	e	t		S	t	b	y	**R**	**e**	**c**		U	n	t	h		E	M	K

Display if Unth Is Selected

U	N	T	H	R	E	A	D									X	X	:	X	X	:	X	X
E	n	d		S	e	t		S	t	b	y	R	e	c		**U**	**n**	**t**	**h**	R	s	e	t

Pressing EMK while Recording adds an Event Mark on the tape for searching purposes

(EMK replaces Rset while Recording)

R	E	C	O	R	D											X	X	:	X	X	:	X	X
E	n	d		S	e	t		R	e	c		S	t	b	y	U	n	t	h		**E**	**M**	**K**

Rset resets tape counter in upper level menu and this level

																X	X	:	X	X	:	X	X
E	n	d		S	e	t		S	t	b	y	R	e	c		U	n	t	h	**R**	**s**	**e**	**t**

Pressing Set moves to the next menu level

																X	X	:	X	X	:	X	X
E	n	d		**S**	**e**	**t**		S	t	b	y	R	e	c		U	n	t	h	R	s	e	t

Fig. 10a

Enclosure 2

Display If Play Is Selected

P	L	A	Y													X	X	:	X	X	:	X	X
E	n	d		B	a	c	k	S	t	i	l	**P**	**l**	**a**	**y**		R	E	W		F	F	

Display If REW Is Selected

R	E	W	I	N	D											X	X	:	X	X	:	X	X
E	n	d		B	a	c	k	S	t	i	l	P	l	a	y		**R**	**E**	**W**		F	F	

Display If FF Is Selected

F	-	F	W	D												X	X	:	X	X	:	X	X
E	n	d		B	a	c	k	S	t	i	l	P	l	a	y		R	E	W		**F**	**F**	

Display if Recorder is in the Play mode and FF is selected

S	C	A	N		F	O	R	W	A	R	D					X	X	:	X	X	:	X	X
E	n	d		B	a	c	k	S	t	i	l	**P**	**l**	**a**	**y**		R	E	W		**F**	**F**	

Display if Recorder is in the Play mode and REW is selected

S	C	A	N		R	E	V	E	R	S	E					X	X	:	X	X	:	X	X
E	n	d		B	a	c	k	S	t	i	l	**P**	**l**	**a**	**y**		**R**	**E**	**W**		F	F	

Pressing Back from the Stil, Play, REW, FF menu returns you to the Stby, Rec, Unth, Rset menu

P	L	A	Y													X	X	:	X	X	:	X	X
E	n	d		**B**	**a**	**c**	**k**	S	t	i	l	P	l	a	y		R	E	W		F	F	

Other possible Menu pages at this level

R	E	C	O	R	D											X	X	:	X	X	:	X	X
E	n	d		B	a	c	k	S	t	i	l	P	l	a	y		R	E	W		F	F	

U	N	T	H	R	E	A	D									X	X	:	X	X	:	X	X
E	n	d		B	a	c	k	S	t	i	l	P	l	a	y		R	E	W		F	F	

Indicates End of Tape Condition

E	O	T														X	X	:	X	X	:	X	X
E	n	d		B	a	c	k	S	t	i	l	P	l	a	y		R	E	W		F	F	

Indicates Beginning of Tape Condition

B	O	T														X	X	:	X	X	:	X	X
E	n	d		B	a	c	k	S	t	i	l	P	l	a	y		R	E	W		F	F	

Indicates an Internal Error Condition

I	N	T	E	R	N	A	L		E	R	R	O	R			X	X	:	X	X	:	X	X
E	n	d		B	a	c	k	S	t	i	l	P	l	a	y		R	E	W		F	F	

Fig. 10b

Enclosure 2

Indicates a Command Error Condition

C	O	M	M	A	N	D		E	R	R	O	R				X	X	:	X	X	:	X	X
E	n	d		B	a	c	k	S	t	i	l	P	l	a	y		R	E	W		F	F	

Indicates a Comms Error Condition between the ATR and Recorder

C	O	M	M	S		E	R	R	O	R						X	X	:	X	X	:	X	X
E	n	d		B	a	c	k	S	t	i	l	P	l	a	y		R	E	W		F	F	

Pressing BACK in any of the above returns you to the previous page

C	O	M	M	S		E	R	R	O	R						X	X	:	X	X	:	X	X
E	n	d		B	a	c	k	S	t	i	l	P	l	a	y		R	E	W		F	F	

Indicates condensation in recorder

D	E	W														X	X	:	X	X	:	X	X
E	n	d		B	a	c	k	S	t	i	l	P	l	a	y		R	E	W		F	F	

6,580,450

Fig. 10c